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PREPARATION METHOD

ABSTRACT

10 The invention pertains to a method of preparing
styrene or substituted styrene involving (1)
converting a mixture containing alkylbenzene
hydroperoxide or substituted alkylbenzene
hydroperoxide to a mixture containing phenyl alkanol
or substituted phenyl alkanol and (2) dehydrating the
phenyl alkanol or substituted phenyl alkanol,
characterized by oxidizing an alkene to an alkylene
oxide in step (1) in the presence of a heterogenous
catalyst and dehydrating the phenyl alkanol or
substituted phenyl alkanol in step (2) in the
presence of a homogenous dehydration catalyst to
obtain styrene or substituted styrene.